# **CLASS SPECIFICATION County of Fairfax, Virginia**

<u>CLASS CODE</u>: 5125 <u>TITLE</u>: ECOLOGIST I <u>GRADE</u>: S-20

### **DEFINITION:**

Under direct supervision, performs entry-level technical and developmental tasks in support of limited portions of various water resources and biological science activities; and performs related work as required.

# **DISTINGUISHING CHARACTERISTICS OF THE CLASS:**

Positions allocated to the Ecologist I class either perform work which is, and will continue to be, more routine, less complex and narrower in scope than work at the Ecologist II level; OR serve in a trainee capacity with noncompetitive promotional progression to the full-performance Ecologist II level.

#### **ILLUSTRATIVE DUTIES:**

Monitors physical, chemical, and biological conditions of the County's streams, lakes, ponds and other water bodies;

Prepares data for analysis and inclusion in water quality monitoring reports;

Assists in assessing the impacts of development and stormwater management systems on the ecological health of County streams and stream valleys;

Performs monitoring of stormwater infrastructure and streams;

Assists in the preparation of Virginia Pollutant Discharge Elimination System (VPDES) permit reports;

Assists in performing and reviewing Resource Protection Area (RPA) and wetland delineation studies:

Organizes data to assist in developing stormwater and watershed management plans;

Responds to citizen and business community questions regarding stream conditions;

Participates in public outreach activities including the development of brochures, reports and web pages;

Participates in public meetings and educational programs;

Maintains contact databases:

Participates in training and coordinating volunteers in water quality monitoring to support countywide monitoring efforts.

# REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

General knowledge of stream ecology, bioassessments protocols, and stream habitats;

General knowledge of local, federal and state regulations, codes, and ordinances related to the Federal Clean Water Act;

General knowledge of wetland regulations and permitting requirements;

Knowledge of fish communities and field identification to the species level;

Knowledge of benthic macro invertebrate communities and laboratory identification to the genus level;

Knowledge of laboratory and field safety procedures, and the handling, storage and transfer of flammable and/or toxic chemicals;

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Knowledge of stream classification methodologies;

Knowledge of Wetland Delineation techniques including the U.S. Corps of Engineers' Wetland Identification and Delineation Manual;

Knowledge of personal computers, associated hardware, and networked environments for the development, storage and dissemination of environmental data;

Ability to collect samples and perform field analysis of water chemistry parameters;

Ability to calibrate and maintain field equipment used in water quality monitoring;

Ability to analyze and manage environmental data using databases, spreadsheets, and statistical programs;

Ability to communicate technical and semi-technical issues effectively, both orally and in writing, to a wide range of audiences;

Ability to carry field equipment and hike long distances over rough terrain;

Ability to operate a motor vehicle.

## **EMPLOYMENT STANDARDS:**

Any combination of education, experience, and training equivalent to the following: Graduation from an accredited college or university with a Bachelor's degree in aquatic ecology, biology, environmental science, limnology, natural resource management, or a related field.

# **CERTIFICATES AND LICENSES REQUIRED:**

Possession of a valid motor vehicle driver's license.

## **NECESSARY SPECIAL REQUIREMENTS:**

None.

ESTABLISHED: February 17, 2004

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